

Amendments to the Claims

1-39. (canceled).

40. (original) A method of diagnosing a predisposition to a disorder associated with the expression of a specific human EHOC-1 polypeptide allele, said method comprising:

contracting a sample containing nucleic acids with a plurality of probes, wherein each probe comprises a nucleic acid sequence having at least 15 bp of contiguous nucleotides capable of specifically hybridizing with a sequence of nucleic acids of the nucleotide sequence set forth in SEQ ID NO: 1, and wherein each individual probe corresponds to a specific locus on chromosome 21q22.3.

41. (original) A method according to claim 40, wherein said disorder is selected from progressive myoclonus epilepsy, holoprosencephaly, or autoimmune polyglandular disease.

42-46. (canceled).